

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A nonreciprocal circuit element comprising:
 - a parallelepiped enclosure;
 - a permanent magnet disposed in the enclosure; and
 - a magnetic assembly disposed in the enclosure, the magnetic assembly including:
 - a magnetic plate;
 - a common electrode on the magnetic plate; and
 - a plurality of central conductors on the magnetic plate,wherein a length of a long side of the enclosure is 3.5 mm or less and a pair of independent terminals connected to at least one of the central conductors are disposed substantially in a contour of the enclosure.
2. (Previously Presented) The nonreciprocal circuit element according to claim 1, wherein the enclosure includes a top yoke and a bottom yoke, the top yoke includes two parallel side plates defining side wall surfaces of the enclosure, the bottom yoke includes cutouts of which a width is larger than a depth, a width direction of the cutouts being substantially identical to a direction of the side wall surfaces, the independent terminals are disposed in the cutouts, and the bottom yoke is integrated with the independent terminals with resin.
3. (Previously Presented) The nonreciprocal circuit element according to claim 2, wherein each of the independent terminals includes a terminal body and a bent terminal segment formed by bending one end of the terminal body and a longitudinal direction of the terminal body is aligned with the width direction of the corresponding cutout.
4. (Original) The nonreciprocal circuit element according to claim 3, wherein each of the bent terminal segments is exposed to the outside of the corresponding side wall surface of the enclosure.

5. (Previously Presented) The nonreciprocal circuit element according to claim 3, wherein an entire surface of each of the bent terminal segments has an anti-corrosion plating layer.

6. (Previously Presented) The nonreciprocal circuit element according to claim 3, wherein an opposing end of each of the terminal bodies is exposed to the outside of the corresponding side wall surface and an entire surface of each of the terminal bodies, except for the exposed portion, has an anti-corrosion plating layer.

7. (Original) The nonreciprocal circuit element according to claim 6, wherein at least one part of the exposed portion has an anti-corrosion coating layer.

8. (Original) A communication apparatus including the nonreciprocal circuit element according to claim 1.

9. (Previously Presented) A lead frame for a nonreciprocal circuit element, comprising:

a hoop including:

a pair of side divisions, each of which includes a fold section formed by die-cutting a portion of the side division into a substantial bold U shape, the fold section including a support segment extending from an inner edge toward an outer edge of the portion of the side division and an independent terminal segment formed at an end of the support segment, the independent terminal segment being wider than the support segment; and

a bottom yoke section between the side divisions, the bottom yoke section including a pair of cutouts of which a width is larger than a depth,

wherein each of the independent terminal segments is positionally symmetrical with the corresponding cutout with respect to a fold line of the corresponding fold section.

10. (Previously Presented) A lead frame for a nonreciprocal circuit element, comprising:

a hoop including:

a pair of side divisions; and

a bottom yoke section between the side divisions, the bottom yoke section including a pair of cutouts of which a width is larger than a depth,

wherein each of the side divisions includes a fold section formed by die-cutting a portion of the side division into a substantial bold U shape and bent towards the bottom yoke section, the fold section including a support segment extending from an inner edge of the portion and an independent terminal segment formed at an end of the support segment, the independent terminal segment being wider than the support segment, and the independent terminal segments are disposed in the respective cutouts.

11. (Previously Presented) The lead frame for a nonreciprocal circuit element according to claim 9, wherein each of the independent terminal segments includes a terminal body and a bent terminal segment formed by bending one end of the terminal body, the support segment being joined with an opposing end of the terminal body.

12. (Original) The lead frame for a nonreciprocal circuit element according to claim 11, wherein each of the bent terminal segments is perpendicular to the bottom yoke section.

13. (Original) The lead frame for a nonreciprocal circuit element according to claim 9, each of the fold sections further including a notch between the support segment and the independent terminal segment.

14. (Previously Presented) The lead frame for a nonreciprocal circuit element according to claim 9, wherein an entire surface of the lead frame has an anti-corrosion plating layer.

15. (Previously Presented) A method for manufacturing a nonreciprocal circuit element, the method comprising:

die-cutting a hoop to form a bottom yoke section having a pair of cutouts of which a width is larger than a depth and a pair of fold sections each including a support segment and an independent terminal segment wider than the support segment, the bottom yoke section being joined with the fold sections by the hoop;

folding each of the fold sections towards the bottom yoke section such that each of the independent terminal segments is disposed in the corresponding

cutout by aligning a longitudinal direction of the independent terminal segment with a width direction of the cutout;

integrally insert-molding the bottom yoke section and the independent terminal segments with resin; and

cutting off the bottom yoke section and the independent terminal segments from the hoop to produce a bottom yoke.